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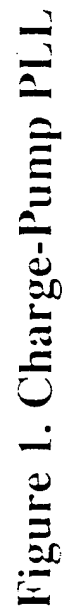


Figure 1. Charge-Pump PLL

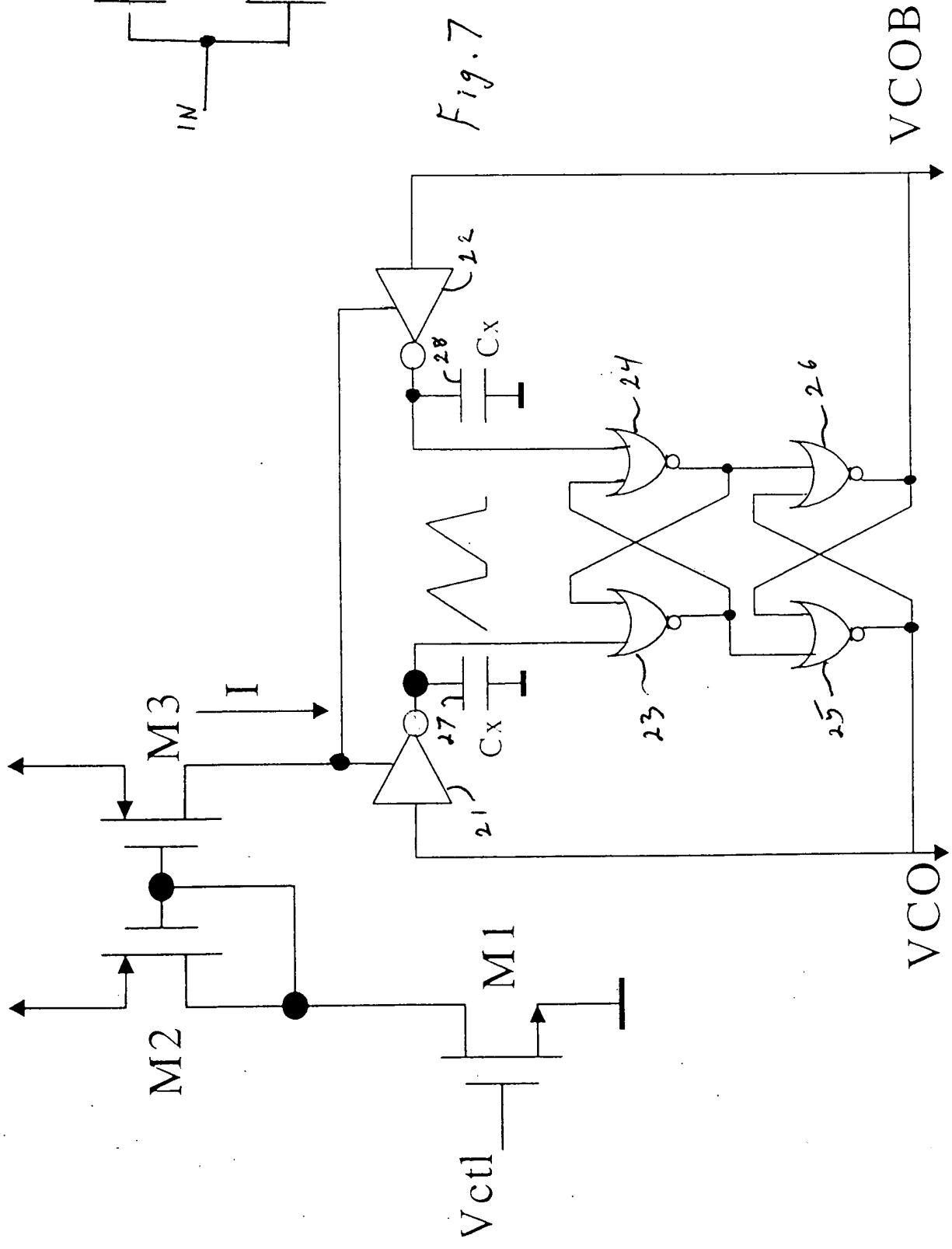
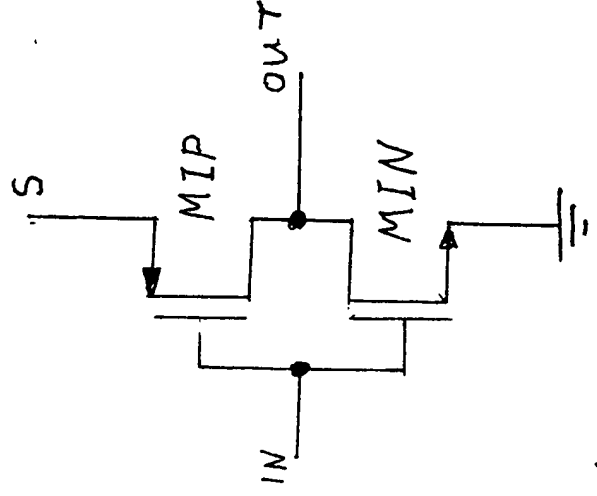


Figure 2. Differential Relaxation VCO
(PRIOR ART)

T1-36111
3/6

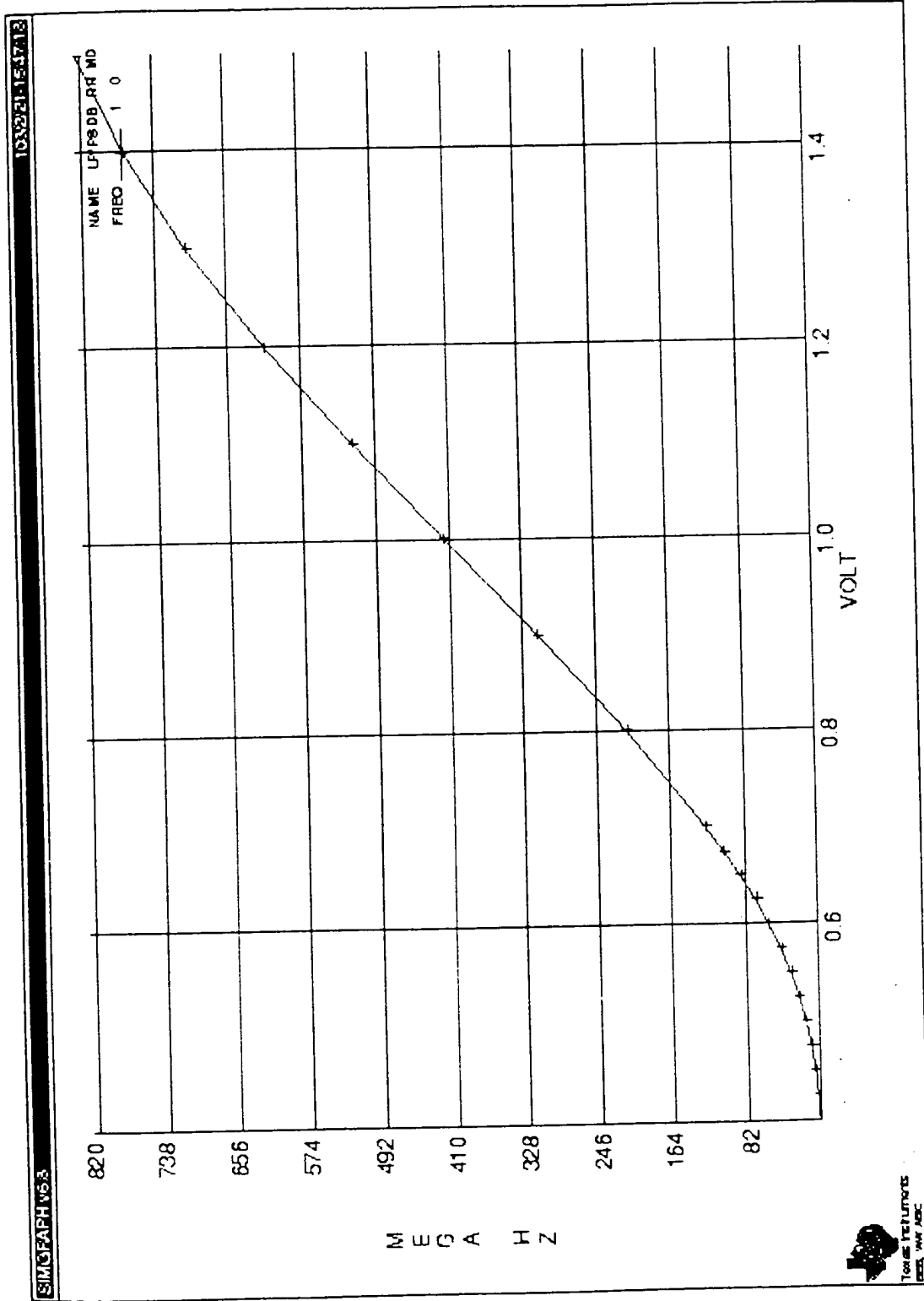


Figure 3. VCO gain curve. (X-axis is the Vctl, Y-axis is the VCO frequency Fosc)
(Prior Art)

T1-36111
4/6

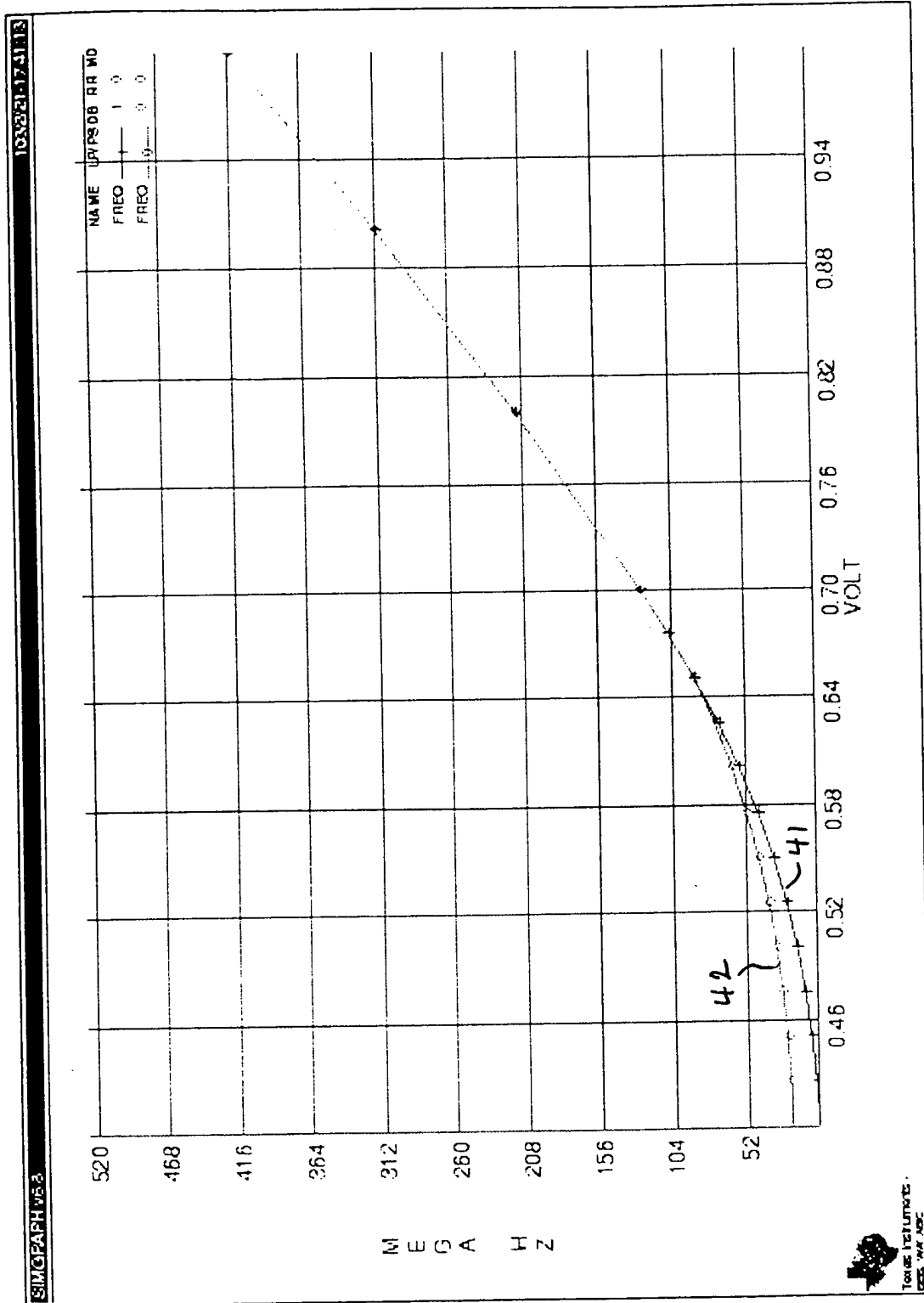


Figure 4. Idea to change VCO gain at low frequencies.

T1-36111
5/6

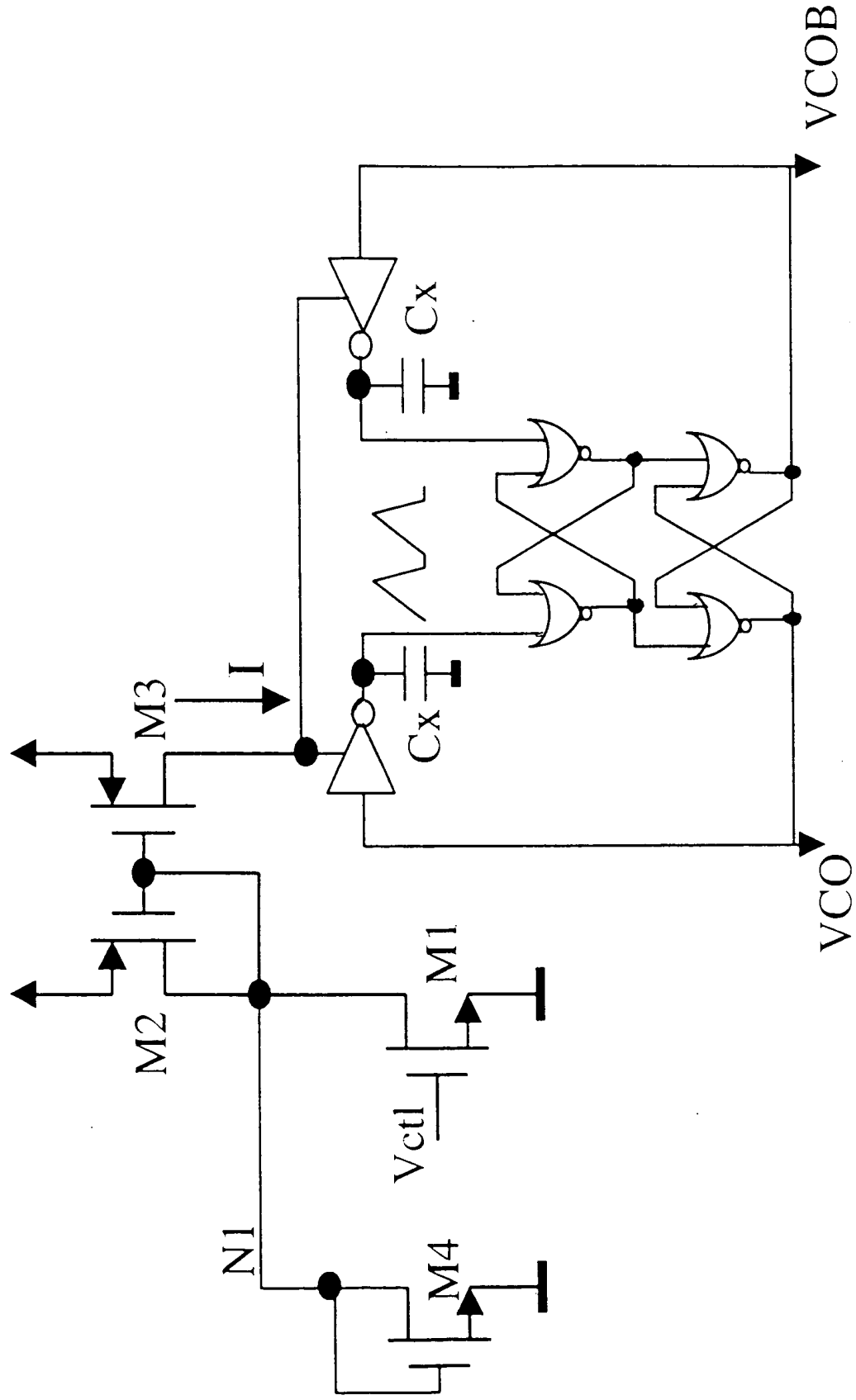


Figure 5. Diode-Connected MOS to Reduce VCO Gain at Low Frequency

T1-36111
6/6

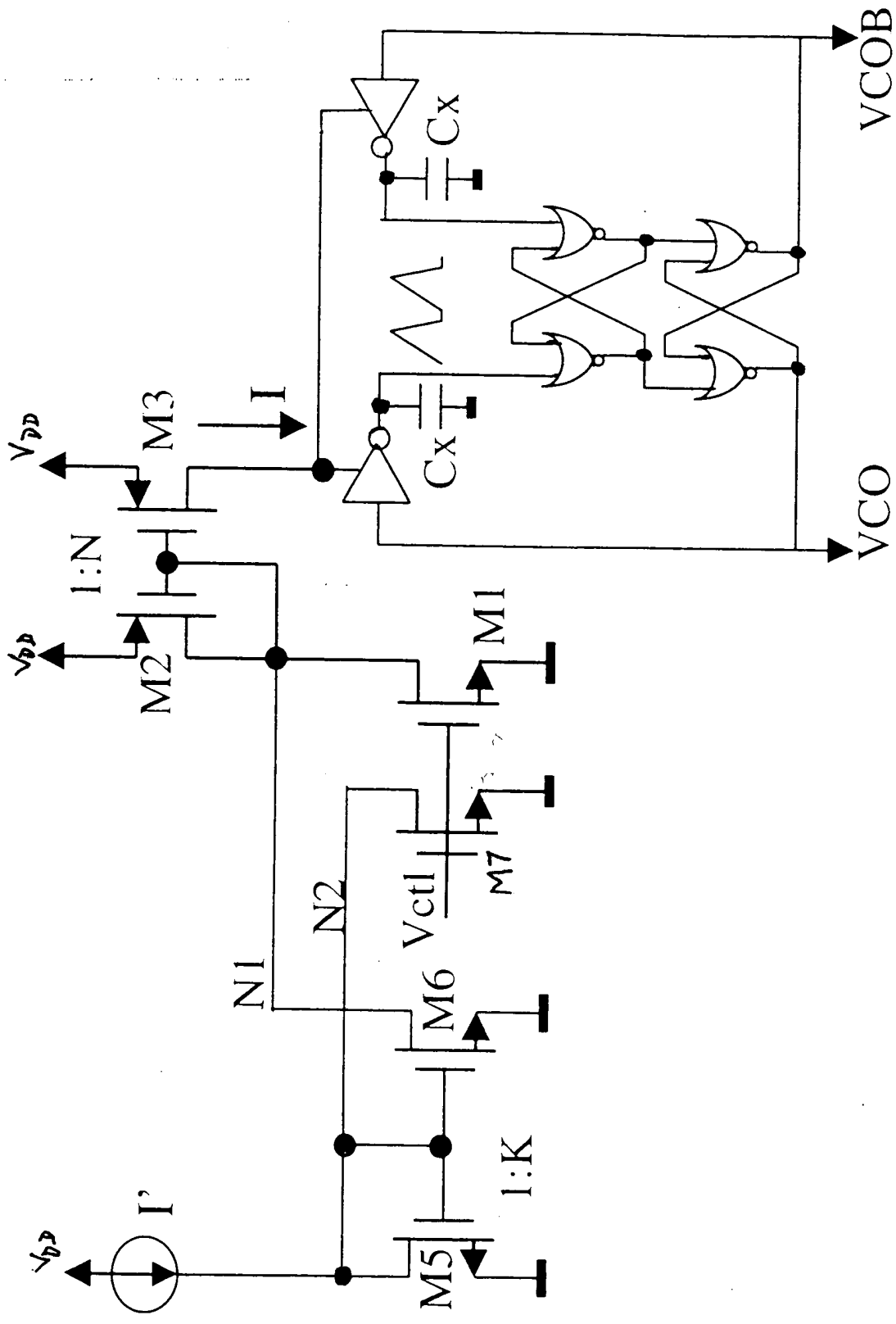


Figure 6. Current Injection to Reduce VCO Gain at Low Frequency